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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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09/029, 688 03/03/98 MADEMANN

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LM02/1012

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EXAMINER

SOBUTKA, P

ART UNIT

PAPER NUMBER

2683

DATE MAILED:

10/12/00

**Please find below and/or attached an Office communication concerning this application or proceeding.****Commissioner of Patents and Trademarks**



UNITED STATES DEPARTMENT OF COMMERCE  
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SERIAL NUMBER	FILING DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NO.

EXAMINER	
ART UNIT	PAPER NUMBER
	13

DATE MAILED:

Please find below a communication from the EXAMINER in charge of this application.

Commissioner of Patents

See Attached

<b>Office Action Summary</b>	Application No. <b>09/029,688</b>	Applicant(s) <b>Mademann</b>
	Examiner <b>Philip Sobutka</b>	Group Art Unit <b>2683</b>

Responsive to communication(s) filed on Jul 20, 2000

This action is **FINAL**.

Since this application is in condition for allowance except for formal matters, **prosecution as to the merits is closed** in accordance with the practice under *Ex parte Quayle* 35 C.D. 11; 453 O.G. 213.

A shortened statutory period for response to this action is set to expire 3 month(s), or thirty days, whichever is longer, from the mailing date of this communication. Failure to respond within the period for response will cause the application to become abandoned. (35 U.S.C. § 133). Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

#### Disposition of Claim

Claim(s) 1-13 is/are pending in the application.  
Of the above, claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

Claim(s) \_\_\_\_\_ is/are allowed.

Claim(s) 1-13 is/are rejected.

Claim(s) \_\_\_\_\_ is/are objected to.

Claims \_\_\_\_\_ are subject to restriction or election requirement.

#### Application Papers

See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.

The drawing(s) filed on \_\_\_\_\_ is/are objected to by the Examiner.

The proposed drawing correction, filed on \_\_\_\_\_ is  approved  disapproved.

The specification is objected to by the Examiner.

The oath or declaration is objected to by the Examiner.

#### Priority under 35 U.S.C. § 119

Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

All  Some\*  None of the CERTIFIED copies of the priority documents have been  
 received.  
 received in Application No. (Series Code/Serial Number) \_\_\_\_\_  
 received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\*Certified copies not received: \_\_\_\_\_

Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

#### Attachment(s)

Notice of References Cited, PTO-892

Information Disclosure Statement(s), PTO-1449, Paper No(s). 12

Interview Summary, PTO-413

Notice of Draftsperson's Patent Drawing Review, PTO-948

Notice of Informal Patent Application, PTO-152

**-- SEE OFFICE ACTION ON THE FOLLOWING PAGES --**

Art Unit: 2683

## DETAILED ACTION

### *Claim Rejections - 35 USC § 103*

1. Claims 1-4,6,10-13, are rejected under 35 U.S.C. 103(a) as being unpatentable over Kauppi (US 5,953,667) in view of Boudreau et al (US 5,369,681).

Consider claims 10,11,12. Kauppi teaches a location registration system in which mobiles transmit registration information that contains a cell identifier in addition to a location identifier (Kauppi see especially col 1, line 60 - col 2, line 48, col 4, lines 21-42), the cell identifier and location identifier being stored in a subscriber database of the MSC (Kauppi col 3, lines 33-48). Kauppi teaches that the cell identifier is used in the paging of the mobile to limit the signaling load by only paging in the identified cell (Kauppi see especially col 1, line 60 - col 2, line 48). Kauppi lacks a teaching of retaining the previous cell identifiers. Boudreau et al teaches a registration process that retains the previous cell identifiers in order to optimize the paging areas (Boudreau see especially col 9, lines 4-11). It would have been obvious to one of ordinary skill in the art to modify Kauppi to retain the previous cell identifiers in order to optimize the paging areas as taught by Boudreau.

As to claim 13, note that Kauppi's method includes paging to adjacent cells (Kauppi col 4, line 40 - col 5, line 25).

As to claims 1-4,6, the system of Kauppi in view of Boudreau would perform the claimed steps.

Art Unit: 2683

2. Claims 5,7,8, are rejected under 35 U.S.C. 103(a) as being unpatentable over Kauppi in view of Boudreau and in view of Tiedemann, Jr. et al (US 5,588,043).

As to claims 5,7,8, Kauppi in view of Boudreau lacks a teaching of storing the time of the last registration, along with the mobile, zone and cell identifiers. Tiedemann teaches storing the time of last registration in order to allow for the system to ensure minimum time between registrations (Tiedemann fig 1, item 50, col 1, line 54 - col 3, line 3, col 13, line 40 - col 14, line 65). It would have been obvious to one of ordinary skill in the art to modify Kauppi in view of Boudreau to also store registration time in order to allow the system to use the timer method of registration as taught by Tiedemann in order to ensure minimum time between registrations.

3. Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kauppi in view of Boudreau.

Kauppi lacks a teaching of the identifiers being sent according to a packet data service. It would be appreciated by those skilled in the art that the above difference would depend more upon engineering design considerations than on any inventive concept limitation because the overall operation of the system would not be changed by naming any particular data transfer service. Official Notice is taken that packet data service is notoriously well known in the art. It would have been obvious to one of ordinary skill in the art to modify Kauppi to use a packet data service to transfer the identifiers in order to utilize a resource efficient transfer method.

Art Unit: 2683

*Response to Amendment*

4. Applicant's arguments with respect to claims 1-13 have been considered but are moot in view of the new ground(s) of rejection.

*Conclusion*

5. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

7. **Any response to this final action should be mailed to:**

**Box AF**

Commissioner of Patents and Trademarks

Art Unit: 2683

Washington, D.C. 20231

**or faxed to:**

(703) 308-6296, or (703) 308-6306,

(for formal communications; please mark "EXPEDITED PROCEDURE")

(for informal or draft communications, please label "PROPOSED" or "DRAFT")

Hand-delivered responses should be brought to Crystal Park II, 2021 Crystal Drive, Arlington, VA., Sixth Floor (Receptionist).

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Philip Sobutka whose telephone number is (703) 305-4825. The examiner can normally be reached on Monday-Thursday from 8:00 AM-5:30 PM. The examiner can also be reached on alternate Fridays.

If attempts to reach the examiner by phone are unsuccessful, the examiner's supervisor, Fan Tsang can be reached at 703-305-4895.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 305-3900.

Philip Sobutka

October 5, 2000

PJS:pjs

FAN TSANG  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2700

